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Tonn

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(54) **MULTI-BAND CABLE ANTENNA WITH
IRREGULAR REACTIVE LOADING**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

An antenna includes a first antenna section that can be joined to an antenna feed. The first section has conductive elements in series with reactive loads. The reactive loads are positioned with a regular spacing. The reactive loads and spacing are optimized for operation of the first section at the highest frequency. Additional antenna sections having successively lower frequencies are joined in series to the first antenna section. Each additional section has conductive elements joined in series with reactive loads at a particular spacing. The additional sections spacing and reactive loads are provided to work in conjunction with the higher frequency antenna sections to optimize the antenna for an additional frequency. A method for making such an antenna is further provided.

19 Claims, 3 Drawing Sheets

